

Product Diamond Seal Satin  
 Revision date 19 March 2021  
 Revision 2



**Safety Data Sheet (SDS)**  
 according to Regulation (EC) No. 1907/2006

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**Section 1: Identification of the substance/mixture and of the company/undertaking**

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**1.1 Product identifier**

<b>Product name</b>	<b>Diamond Seal Satin</b>
<b>Other means of identification</b>	No information available.

**1.2 Relevant identified uses of the substance or mixture and uses advised against**

<b>Identified uses</b>	Paint or paint related material. For industrial use.
<b>Uses advised against</b>	No uses advised against are identified.

**1.3 Details of the supplier of the safety data sheet**

<b>Supplier</b>	FSW Coatings Ltd Virginia Co Cavan Ireland Tel: 353 49854 7209
<b>Contact person</b>	info@fsw.ie

**1.4 Emergency telephone number**

<b>Emergency telephone</b>	+ 353 49854 7209 (Between 0900 and 1700 hrs Monday-Friday)
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**Section 2: Hazards identification**

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**2.1 Classification of the substance or mixture**

<b>Classification (EC 1272/2008)</b>	
Physical and chemical hazards	Not classified
Human health	Not classified
Environment	Not classified

**2.2 Label elements**

<b>Contains</b>	Not applicable
<b>Label in accordance with (EC) no. 1272/2008</b>	No pictogram required
<b>Signal word</b>	No Signal Word
<b>Hazard statements</b>	No hazard statements required
<b>Precautionary statements</b>	No precautionary statements required

**2.3 Other hazards**

None known.

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**Section 3: Composition/information on ingredients**

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**3.1 Substance**

Not applicable.

### 3.2 Mixtures

Name	Product identifier	Regulation (EC) No 1272/2008	%
2-butoxyethanol	CAS-No.: 111-76-2 EC No.: 203-905-0 REACH Reg No.: 01-2119475108-36-XXXX	Acute Tox 4 - H302, Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Eye Irrit.2A - H319	1-5%
2-(2-butoxyethoxy)ethanol	CAS-No.: 112-34-5 EC No.: 203-961-6 REACH Reg No.: 01-2119475104-44-XXXX	Eye Irrit.2A - H319	0.1-0.9%
Alcohols, C16-18, ethoxylated	CAS-No.: 68439-49-6 EC No.: 500-212-8	Acute Tox 4 - H302, Eye Dam. 1 - H318, Aquatic Acute 1 - H400	0.1-0.9%
xylene	CAS-No.: 1330-20-7 EC No.: 215-535-7	Acute Tox 4 - H312, Acute Tox 4 - H332, Skin Irrit.2 - H315, Flam. Liq 3- H226	0.1-0.9%
ethanol	CAS-No.: 64-17-5 EC No.: 200-578-6	Eye Irrit.2A - H319, Flam. Liq 2- H225	<0.1%
ethylbenzene	CAS-No.: 100-41-4 EC No.: 202-849-4	Aquatic Chronic 3 - H412, Acute Tox 4 - H332, Asp. Tox - H304, Flam. Liq 2- H225, STOT RE 2 - H373	<0.1%
2-methylpropan-1-ol	CAS-No.: 78-83-1 EC No.: 201-148-0	Skin Irrit.2 - H315, Eye Dam. 1 - H318, Flam. Liq 3- H226, STOT SE 3 - H335, STOT SE 3 - H336	<0.1%
methanol	CAS-No.: 67-56-1 EC No.: 200-659-6	Acute Tox 3 - H301, Acute Tox 3 - H311, Acute Tox 3 - H331, Flam. Liq 2- H225, STOT SE 1 - H370	<0.1%
formaldehyde 100%	CAS-No.: 50-00-0 EC No.: 200-001-8	Acute Tox 3 - H301, Acute Tox 2 - H310, Skin Corr. 1B - H314, Skin. Sens 1 - H317, Acute Tox 3 - H331, Muta. 2- H341, Carc. 1B - H350	<0.1%

The full text for all hazard statements are displayed in section 16.

#### Composition comments

The data shown are in accordance with the latest EC Directives.

Methanol: Specific Concentration Limits = STOT SE 1; H370: C  $\geq$  10 %, STOT SE 2; H371: 3 %  $\leq$  C < 10 %.

Formaldehyde: Specific Concentration Limits = Eye Irrit. 2; H319: 5 %  $\leq$  C < 25 %, STOT SE 3; H335: C  $\geq$  5 %, Skin Corr. 1B; H314: C  $\geq$  25 %, Skin Irrit. 2; H315: 5 %  $\leq$  C < 25 %, Skin Sens. 1; H317: C  $\geq$  0,2 %.

### Section 4: First aid measures

#### 4.1 Description of first aid measures

<b>General information</b>	Provide general first aid, rest, warmth and fresh air. As a general rule, in case of doubt or if symptoms persist, always call a doctor.
<b>Inhalation</b>	Move the exposed person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort or breathing difficulties develop.
<b>Ingestion</b>	Rinse mouth out and then drink plenty of water. Seek medical attention.
<b>Skin contact</b>	Remove affected person from source of contamination. Wash exposed area with soap and water. Get medical attention if irritation develops or persists.
<b>Eye contact</b>	Remove contact lenses if present and easy to do so. Hold eye lids open. Rinse with a gentle stream water for at least 15 minutes. Seek medical attention.

#### 4.2 Most important symptoms and effects, both acute and delayed

<b>General information</b>	The severity of the symptoms described will vary dependent on the concentration and the length of exposure.
<b>Inhalation</b>	Inhalation of high concentrations of vapours may cause irritation of the respiratory tract or dizziness.
<b>Ingestion</b>	Prolonged exposure to liquid product may cause irritation to linings of mouth,
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause temporary eye irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

<b>Notes to the physician</b>	Treat symptomatically.
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### Section 5: Firefighting measures

### 5.1 Extinguishing media

<b>Extinguishing media</b>	This product is not flammable. Use fire-extinguishing media appropriate for surrounding materials. Water spray, foam, dry powder or carbon dioxide.
<b>Unsuitable extinguishing media</b>	High volume water jet.

### 5.2 Special hazards arising from the substance or mixture

<b>Hazardous combustion products</b>	During fire, gases hazardous to health may be formed.
<b>Unusual fire &amp; explosion hazards</b>	No unusual fire or explosion hazards noted.
<b>Specific hazards</b>	Floors may become slippery, avoid falls.

### 5.3 Advice for firefighters

<b>Special fire fighting procedures</b>	Avoid breathing fire vapours. Keep up-wind to avoid fumes. Fight advanced or massive fires from safe distance or protected location. Ventilate closed spaces before entering them. Containers close to fire should be removed immediately or cooled with water if safe to do so.
<b>Protective equipment for firefighters</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

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## Section 6: Accidental release measures

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### 6.1 Personal precautions, protective equipment and emergency procedures

<b>For non-emergency personnel</b>	Wear protective clothing as described in Section 8 of this safety data sheet. Ensure adequate ventilation. Do not smoke, use open fire or other sources of ignition.
<b>For emergency responders</b>	Follow safe handling advice and personal protective equipment recommendations for normal use of product.

### 6.2 Environmental precautions

<b>Environmental precautions</b>	Avoid discharge in to drains and water courses.
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### 6.3 Methods and material for containment and cleaning up

<b>Spill clean up methods</b>	Stop leak if possible without risk. Wear necessary protective equipment. Absorb spillage with non-combustible, absorbent material. Ensure that waste and contaminated materials are collected and removed from the work area as soon as possible in a suitably labelled container. Wash thoroughly after dealing with a spillage.
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### 6.4 Reference to other sections

<b>Reference to other sections</b>	See section 1 for emergency contact. For personal protection, see section 8. For waste disposal, see section 13.
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## Section 7: Handling and storage

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### 7.1 Precautions for safe handling

<b>Handling</b>	Read and follow manufacturer's recommendations. Observe occupational exposure limits and minimise the risk of inhalation of vapours and mist. Do not eat, drink or smoke when using the product. Avoid spilling, skin and eye contact. Ensure adequate ventilation. Use proper personal protection when handling (refer to Section 8).
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### 7.2 Conditions for safe storage, including any incompatibilities

<b>Storage precautions</b>	Store in tightly closed original container in a cool, dry and well-ventilated place. Keep upright, locked up and out of reach of children.
<b>Storage class</b>	Unspecified storage.

### 7.3 Specific end use(s)

<b>Specific end use(s)</b>	The identified uses for this product are detailed in Section 1.
<b>Usage description</b>	Use only according to directions. Replace and tighten cap after use.

## Section 8: Exposure controls/Personal protection

### 8.1 Control parameters

Component	STD	TWA (8 Hrs)		STEL (15mins)		Notes
2-butoxyethanol	OEL	20 ppm	98 mg/m <sup>3</sup>	50 ppm	246 mg/m <sup>3</sup>	Sk, IOELV
2-(2-butoxyethoxy)ethanol	OEL	10 ppm	67.5 mg/m <sup>3</sup>	12 ppm	101.2 mg/m <sup>3</sup>	IOELV
xylene	OEL	50 ppm	221 mg/m <sup>3</sup>	100 ppm	442 mg/m <sup>3</sup>	Sk, IOELV
ethanol	OEL			1000 ppm		
ethylbenzene	OEL	100 ppm	442 mg/m <sup>3</sup>	200 ppm	884 mg/m <sup>3</sup>	Sk, IOELV
2-methylpropan-1-ol	OEL	50 ppm	150 mg/m <sup>3</sup>	75 ppm	225 mg/m <sup>3</sup>	
methanol	OEL	200 ppm	260 mg/m <sup>3</sup>			
formaldehyde 100%	OEL	0.3 ppm	0.37 mg/m <sup>3</sup>	0.6 ppm	0.738 mg/m <sup>3</sup>	BOELV, Carc 1B, Sens, Limit value 0.5ppm/0.62mg/m <sup>3</sup> for the healthcare, funeral and embalming sectors until 11 July 202420

#### Ingredient comments

Ireland, Occupational Exposure Limits 2020.

### 8.2 Exposure Controls

#### Protective equipment



#### Engineering measures Respiratory equipment

Observe occupational exposure limits and minimize the risk of inhalation of dust. No specific recommendation made, but respiratory protection must be used if the general level exceeds the recommended occupational exposure limit. Use type ABEK (EN 14387) respirator cartridges.

#### Hand protection

Use suitable protective gloves if there is a risk of skin contact. Full contact: Material: Nitrile rubber; Minimum layer thickness: 0.11mm ; Breakthrough time: 480 min. Consult manufacturer for specific advice.

#### Eye protection

Use equipment for eye protection tested and approved under appropriate government standards such as EN 166(EU).

#### Other protection

Wear appropriate clothing to prevent any possibility of skin contact. Protective clothing should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. The selected clothing must satisfy the European norm standard EN 943.

#### Hygiene measures

Wash hands and / or face before breaks and at the end of the shift. Do not eat, drink, or smoke while using this product. Avoid contact with skin, eyes and clothing.

#### Process conditions

Use only according to directions. Ensure that eye flushing systems and safety showers are located close by in the work place.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance	Viscous liquid.
Colour	Clear.
Odour	Slight.
Odour threshold - lower	No information available as testing has not been completed.
Odour threshold - upper	No information available as testing has not been completed.
pH-Value, Conc. Solution	>8.1
pH-Value, Diluted solution	No information available as testing has not been completed.
Melting point	May start to solidify at the temperatures below 2°C. This is based on data for the following

	ingredient: water
<b>Initial boiling point and boiling range</b>	>42°C
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Flammability state</b>	Non Flammable.
<b>Flammability limit - lower(%)</b>	No information available as testing has not been completed.
<b>Flammability limit - upper(%)</b>	0%
<b>Vapour pressure</b>	Highest known value: 3.2 kPa (23.8 mm Hg) (at 20°C) (water). Weighted average: 3.12 kPa (23.4 mm Hg) (at 20°C)
<b>Vapour density (air=1)</b>	Highest known value: 7.5 (Air = 1) (isobutyric acid, monoester with 2,2, 4-trimethylpentan-1,3-diol).
<b>Relative density</b>	1.02
<b>Bulk density</b>	No information available as testing has not been completed.
<b>Solubility</b>	Partially soluble in cold water.
<b>Decomposition temperature</b>	Stable under normal handling and storage conditions
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.
<b>Auto ignition temperature (°C)</b>	Not applicable.
<b>Viscosity</b>	Kinematic (40°C): >0.25 cm <sup>2</sup> /s
<b>Explosive properties</b>	Not classified as explosive.
<b>Oxidising properties</b>	The product does not meet the criteria to be classified as oxidising.

## **9.2 Other information**

<b>Molecular weight</b>	No information available as testing has not been completed.
<b>Volatile organic compound</b>	77.00 g/litre
<b>Other information</b>	Volume solids: 29.0% +/- 1.0% Weight Solids: 31.0% +/- 1.0%.

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## **Section 10: Stability and reactivity**

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### **10.1 Reactivity**

<b>Reactivity</b>	No specific reactivity hazards associated with this product.
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### **10.2 Chemical stability**

<b>Stability</b>	Stable under normal temperature conditions and recommended use.
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### **10.3 Possibility of hazardous reactions**

<b>Hazardous reactions</b>	For information on hazardous reactions see section 10.1.
<b>Hazardous polymerisation</b>	Unknown.
<b>Polymerisation description</b>	Unknown.

### **10.4 Conditions to Avoid**

<b>Conditions to avoid</b>	Avoid heat, flames and other sources of ignition. Extremes of temperature and direct
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sunlight.

### 10.5 Incompatible materials

**Materials to avoid** Do not mix with other chemicals unless listed on directions. Avoid strong oxidising agents.

### 10.6 Hazardous decomposition products

**Hazardous decomposition products** When heated, vapours/gases hazardous to health may be formed.

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## Section 11: Toxicological information

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### 11.1 Information on hazard classes as defined in Regulation (EC) No. 1272/2008

<b>Toxicological information</b>	No toxicological information for the overall finished product.
<b>Acute toxicity (Oral LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Dermal LD50)</b>	No information available as testing has not been completed.
<b>Acute toxicity (Inhalation LD50)</b>	No information available as testing has not been completed.
<b>Serious eye damage/irritation</b>	May cause temporary eye irritation.
<b>Skin corrosion/irritation</b>	The product is not classified as a skin corrosion/irritation hazard.
<b>Respiratory sensitisation</b>	The product is not classified as a respiratory hazard.
<b>Skin sensitisation</b>	The product is not classified as a skin sensitisation hazard.
<b>Germ cell mutagenicity</b>	The product is not classified as a mutagen.
<b>Carcinogenicity</b>	The product is not classified as a carcinogen hazard.
<b>Specific target organ toxicity - Single exposure:</b>	
<b>STOT - Single exposure</b>	The product is not classified as a single exposure specific target organ toxin.
<b>Specific target organ toxicity - Repeated exposure:</b>	
<b>STOT - Repeated exposure</b>	The product is not classified as a repeat exposure specific target organ toxin.
<b>Inhalation</b>	Inhalation of high concentrations of vapours may cause irritation of the respiratory tract or dizziness.
<b>Ingestion</b>	Prolonged exposure to liquid product may cause irritation to linings of mouth,
<b>Skin contact</b>	Prolonged contact may cause redness, irritation and dry skin.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
<b>Routes of entry</b>	Eyes, skin, ingestion or inhalation.
<b>Target organs</b>	Eyes, skin, digestive system, respiratory system.
<b>Aspiration hazards:</b>	The product is not classified as an aspiration hazard.
<b>Reproductive toxicity:</b>	The product is not classified as a reproductive hazard.

Name	LD50 oral	LD50 dermal	LD50 inhalation
2-butoxyethanol	470.00mg/kg Rat	2270.00mg/kg Rat	2.21mg/l (vapours) Rat 4 Hours
formaldehyde 100%	>200.00mg/kg Rat		
2-(2-butoxyethoxy)ethanol	3305.00mg/kg Rat	2764.00mg/kg Rabbit	
methanol	5628.00mg/kg Rat	15800.00mg/kg Rat	64000.00ppmV Rat 4 Hours

### 11.2 Information on other hazards

**Information on other hazards** None known.

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## Section 12: Ecological information

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### 12.1 Toxicity

**Acute toxicity - Fish** No information available as testing has not been completed.

<b>Acute toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Acute toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Acute toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Fish</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic invertebrates</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Aquatic plants</b>	No information available as testing has not been completed.
<b>Chronic toxicity - Microorganisms</b>	No information available as testing has not been completed.
<b>Ecotoxicity</b>	The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<b>Eco toxicological information</b>	Not classified as dangerous for the environment according to the criteria of Regulation (EC) No 1272/2008.

## 12.2 Persistence and degradability

<b>Degradability</b>	The degradability of the product has not been stated.
<b>Biological oxygen demand</b>	No information available as testing has not been completed.
<b>Chemical oxygen demand</b>	No information available as testing has not been completed.

## 12.3 Bioaccumulative potential

<b>Bioaccumulative potential</b>	No data available on bioaccumulation.
<b>Bioaccumulation factor</b>	No information available as testing has not been completed.
<b>Partition coefficient; n-Octanol/Water</b>	No information available as testing has not been completed.

## 12.4 Mobility in soil

<b>Mobility</b>	Partially soluble in cold water.
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## 12.5 Results of PBT and vPvB assessment

<b>Results of PBT and vPvB assessment</b>	The product does not contain any PBT or vPvB Substances.
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## 12.6 Endocrine disrupting properties

<b>Endocrine disrupting properties</b>	The product does not contain any substances with endocrine disrupting properties at a concentration above or equal to 0.1%.
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## 12.7 Other adverse effects

<b>Other adverse effects</b>	None known.
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Name	Acute toxicity (Fish)	Acute toxicity (Aquatic invertebrates)	Acute toxicity (Aquatic plants)
2-butoxyethanol	LC50 1490.00mg/l Freshwater Fish	EC50 48 Hours 1001.00mg/l Daphnia magna	
formaldehyde 100%			
2-(2-butoxyethoxy)ethanol	LC50 96 Hours 1300.00mg/l Lepomis macrochirus (Bluegill)	EC50 48 Hours >100.00mg/l Daphnia magna	
methanol	LC50 96 Hours 13200.00mg/l Onchorhynchus mykiss (Rainbow Trout)		

## Section 13: Disposal considerations

<b>Waste management</b>	When handling waste, consideration should be made to the safety precautions applying to handling of the product.
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### 13.1 Waste treatment methods

<b>Disposal methods</b>	Dispose of waste and residues in accordance with local authority requirements, and in accordance with all local, national and international regulations. For waste disposal, use a licensed industrial waste disposal agent.
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**Section 14: Transport information****14.1 UN number or ID number**

UN no. (ADR)	Not applicable.
UN no. (IMDG)	Not applicable.
UN no. (IATA)	Not applicable.

**14.2 UN proper shipping name**

ADR proper shipping name	Not applicable.
IMDG proper shipping name	Not applicable.
IATA proper shipping name	Not applicable.

**14.3 Transport hazard class(es)**

ADR class	Not applicable.
IMDG class	Not applicable.
IATA class	Not applicable.

Transport labels Not applicable

**14.4 Packing group**

ADR/RID/ADN packing group	Not applicable.
IMDG packing group	Not applicable.
IATA packing group	Not applicable.

**14.5 Environmental hazards**

ADR	No
IMDG	No
IATA	No

**14.6 Special precautions for user**

EMS	Not applicable.
Emergency action code	Not applicable.
Hazard no. (ADR)	Not applicable.
Tunnel restriction code	Not applicable.

**14.7 Maritime transport in bulk according to IMO instruments**

Not applicable.

**Section 15: Regulatory information****15.1 Safety, health and environmental regulations/Legislation specific for the substance or mixture**

<b>EU legislation</b>	Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments. The UN Globally Harmonized System (GHS) Safety Data Sheet format (Annex IV) is implemented as Annex II of REACH EU No 2020/878 of 18 June 2020 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
<b>Approved code of practice</b>	2020 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations (2001-2015) and the Safety, Health and Welfare at Work (Carcinogens) Regulations (2001-2019)

**15.2 Chemical safety assessment**

<b>Chemical safety assessment</b>	No chemical safety assessment has been carried out.
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**Section 16: Other information**

<b>General information</b>	This Safety Data Sheet is in accordance with Reach Regulation (EC) No 453/2010.
<b>Revision comments</b>	This is a second issue. [3]Information updated. [4]Information updated. [5]Information updated. [6]Information updated. [8]Information updated. [9]Information updated. [10]Information updated. [11]Information updated. [12]Information updated. [15]Information



Revision date	updated.
Supersedes date	19 March 2021
Revision	27 October 2017
Safety data sheet status	2
	Approved.

#### **Hazard statements in full**

<b>H302</b>	Harmful if swallowed.
<b>H312</b>	Harmful in contact with skin.
<b>H315</b>	Causes skin irritation.
<b>H319</b>	Causes serious eye irritation.
<b>H332</b>	Harmful if inhaled.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H318</b>	Causes serious eye damage.
<b>H412</b>	Harmful to aquatic life with long lasting effects.
<b>H400</b>	Very toxic to aquatic life.
<b>H226</b>	Flammable liquid and vapour.
<b>H314</b>	Causes severe skin burns and eye damage.
<b>H225</b>	Highly flammable liquid and vapour.
<b>H304</b>	May be fatal if swallowed and enters airways.
<b>H373</b>	May cause damage to organs through prolonged or repeated exposure .
<b>H335</b>	May cause respiratory irritation.
<b>H336</b>	May cause drowsiness or dizziness.
<b>H301</b>	Toxic if swallowed.
<b>H311</b>	Toxic in contact with skin.
<b>H331</b>	Toxic if inhaled.
<b>H370</b>	Causes damage to organs .
<b>H317</b>	May cause an allergic skin reaction.
<b>H341</b>	Suspected of causing genetic defects .
<b>H350</b>	May cause cancer .

#### **Disclaimer**

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.